



Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 3

Complete if Known

Application Number	09/997,530
Filing Date	November 30, 2001
First Named Inventor	Paul Master
Art Unit	2183
Examiner Name	Idriss n. Alrobaye
Attorney Docket Number	046301/002000

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number – Kind Code ² (if known)				
	1.	US 3,665,171		05-23-1972	Morrow	
	2.	US 4,380,046		04-12-1983	Fung	
	3.	US 4,649,512		03-10-1987	Nukiyama	
	4.	US 4,758,985		07-19-1988	Carter	
	5.	US 4,870,302		09-26-1989	Freeman	
	6.	US 4,905,231		02-27-1990	Leung et al.	
	7.	US 5,099,418		03-24-1992	Pian et al.	
	8.	US 5,144,166		09-01-1992	Camarota et al.	
	9.	US 5,165,023		11-17-1992	Gifford	
	10.	US 5,177,700		01-05-1993	Göckler	
	11.	US 5,218,240		06-08-1993	Camarota et al.	
	12.	US 5,245,227		09-14-1993	Furtek et al.	
	13.	US 5,336,950		08-09-1994	Popli et al.	
	14.	US 5,388,062		02-07-1995	Knutson	
	15.	US 5,428,754		06-27-1995	Baldwin	
	16.	US 5,475,856		12-12-1995	Kogge	
	17.	US 5,701,398		12-23-1997	Glier et al.	
	18.	US 5,729,754		03-17-1998	Estes	
	19.	US 5,737,631		04-07-1998	Trimberger	
	20.	US 5,771,362		06-23-1998	Bartkowiak et al.	
	21.	US 5,784,699		07-21-1998	McMahon et al.	
	22.	US 5,802,278		09-01-1998	Isfeld et al.	
	23.	US 5,838,894		11-17-1998	Horst	
	24.	US 5,892,962		04-06-1999	Cloutier	
	25.	US 6,018,783		01-25-2000	Chiang	
	26.	US 6,112,218		08-29-2000	Gandhi et al.	
	27.	US 6,119,178		09-12-2000	Martin et al.	
	28.	US 6,128,307		10-03-2000	Brown	
	29.	US 6,134,605		10-17-2000	Hudson et al.	
	30.	US 6,134,629		10-17-2000	L'Ecuyer	
	31.	US 6,154,492		11-28-2000	Araki et al.	
	32.	US 6,173,389	B1	01-09-2001	Pechanek et al.	
	33.	US 6,202,189	B1	03-13-2001	Hinedi et al.	
	34.	US 6,272,616	B1	08-07-2001	Fernando et al.	
	35.	US 6,279,020	B1	08-21-2001	Dujardin et al.	
	36.	US 6,326,806	B1	12-04-2001	Fallside et al.	
	37.	US 6,381,293	B1	04-30-2002	Lee et al.	
	38.	US 6,426,649	B1	07-30-2002	Fu et al.	
	39.	US 6,467,009	B1	10-15-2000	Winegarden et al.	

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				Filing Date	November 30, 2001
				First Named Inventor	Paul Master
				Art Unit	2183
				Examiner Name	Idriss n. Alrobaye
Sheet	2	of	3	Attorney Docket Number	046301/002000

U.S. PATENT DOCUMENTS					
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	40.	US 6,469,540 B2	10-22-2002	Nakaya	
	41.	US 6,483,343 B1	11-19-2002	Faith et al.	
	42.	US 6,604,189 B1	08-05-2003	Zemlyak et al.	
	43.	US 6,611,908 B1	08-26-2003	McAllister et al.	
	44.	US 6,618,777 B1	09-09-2003	Greenfield	
	45.	US 6,647,429 B1	11-11-2003	Semal	
	46.	US 6,675,284 B1	01-06-2004	Warren	
	47.	US 6,684,319 B1	01-27-2004	Mohamed et al.	
	48.	US 6,694,380 B1	02-17-2004	Wolrich et al.	
	49.	US 6,751,723 B1	06-15-2004	Kundu et al.	
	50.	US 6,760,833 B1	07-06-2004	Dowling	
	51.	US 6,807,590 B1	10-19-2004	Carlson et al.	
	52.	US 6,854,002 B2	02-08-2005	Conway et al.	
	53.	US 6,859,434 B2	02-22-2005	Segal et al.	
	54.	US 6,883,074 B2	04-19-2005	Lee et al.	
	55.	US 6,907,598 B2	06-14-2005	Fraser	
	56.	US 6,941,336 B1	09-06-2005	Mar	
	57.	US 6,980,515 B1	12-27-2005	Schunk et al.	
	58.	US 6,986,142 B1	01-10-2006	Ehlig et al.	

U.S. PUBLISHED PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Document Number – Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	59.	US 2002/0133688 A1	09-19-2002	Lee et al.	
	60.	US 2002/0167997 A1	11-14-2002	Kim et al.	
	61.	US 2002/0184275 A1	12-05-2002	Dutta et al.	
	62.	US 2003/0023649 A1	01-30-2003	Kamiya et al.	
	63.	US 2003/0074473 A1	04-17-2003	Pham et al.	
	64.	US 2003/0131162 A1	07-10-2003	Secatch et al.	
	65.	US 2003/0229864 A1	12-11-2003	Watkins	
	66.	US 2004/0086027 A1	05-06-2004	Shattil	
	67.	US 2004/0133745 A1	07-08-2004	Ramchandran	
	68.	US 2004/0174932 A1	09-09-2004	Warke et al.	
	69.	US 2005/0044344 A1	02-24-2005	Stevens	
	70.	US 2005/0166073 A1	07-28-2005	Lee	
	71.	US 2005/0190871 A1	09-01-2005	Sedarat	

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		Country Code ³	Number ⁴ Kind Code ⁵ (if known)				
	72.	WO 00/69073	A1	11-16-2000	Wasson		

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	73.	Altera Apex 20K 1999	
	74.	Andraka Consulting Group, "Distributed Arithmetic," Obtained from: http://www.fpga-guru.com/distribu.htm (1998-2000)	
	75.	Computer Organization and Design 2 nd Edition, Hennessy, Morgan Kaufmann Publishers, pp. 569–70 (1998)	
	76.	Free On-Line Dictionary of Computing. ©1995-2000 www.foldoc.org search terms: cache, operating system, Internet, DMA, interrupt	
	77.	Hanna et al., "A Normalized Backpropagation Learning Algorithm for Multilayer Feed-Forward Neural Adaptive Filters," <i>Neural Networks for Signal Processing XI</i> , Proceedings of the 2001 IEEE Signal Processing Society Workshop pp. 63–72 (Sept 2001)	
	78.	Janweijer et al., "A Compact Robin Using the SHarc (CRUSH)," Obtained from: http://www.nikhef.nl/~peterj/Crush/CRUSH-hw.pdf (Sept 1998)	
	79.	Rajagopalan et al., "A Flexible Multiplication Unit for an FPGA Logic Block," <i>Circuits and Systems</i> 4:546–9 (2001)	
	80.	Xilinx Data Book 1998	
	81.	Xilinx Virtex 1.1 1998	
	82.	Xilinx Virtex 2.2 2000	

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